SMO3

SEDLETSKIY, Ivan Dmitriyevich, professor; SHEVCHENKO, Ye.V., professor, redaktor

。 1. 14 · 1. 1

[Methods of determining colloid disperse minerals] Metody opredeleniis kolloidno-dispersnykh mineralov. [Kiev] Izd-vo Kievskogo gos.univ. im. T.G.Shevchenko, 1955. 155 p. (MIRA 9:3) (Colloids)

SHEVCHENKO, Ye.V., doktor geol.-min.nauk

Method for determining the extent of humification of peat. Torf. prom. 36 no.3:26-29 159. (MIRA 12:7)

1. Kiyevskiy institut inzhenerov vodnogo khozyaystva. (Peat)

CHEREDNICHENKO, Aleksandr Ivanovich; SHEVCHENKO, Yo.V., prof., doktor geol.-mineral. nauk, otv. red.; ZAVIRYUKHINA, V.N. red.

. .

[Tectonophysical conditions governing mineral transformation in solid rocks.] Tektonofizicheskie usloviia mineral'nykh preobrazovanii v tverdykh gornykh porodakh. Kiev, Naukova dumka, 1964. 183 p. (Akademiia nauk URSR. Instytut geologichnykh nauk. Trudy. Seriia geotektoniki, no.15)

(MIRA 17:12)

SHEVCHENKO, Ye.V.

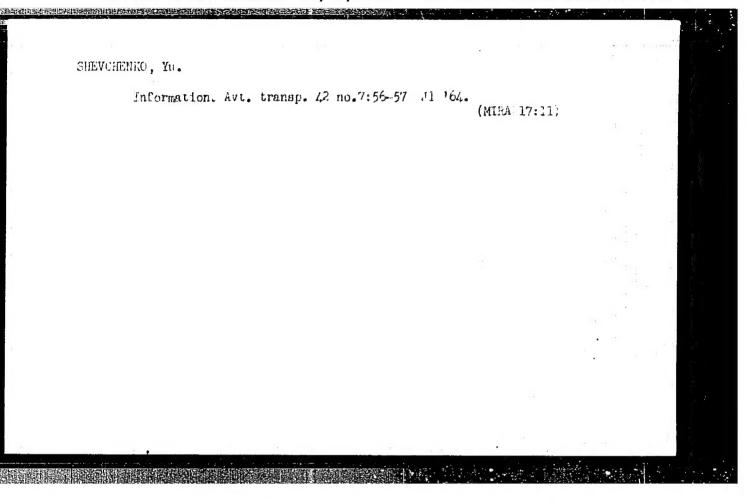
Physicomathematical analysis of the rate of growth of minerals in small intrusions. Dokl. AN SSSR 162 no.2:432-435 My '65. (MIRA 18:5)

1. Institut geologicheskikh nauk AN UkrSSR. Submitted March 15, 1963.

CHEREDNICHENKO, Aleksandr Ivanovich; SHEVCHENKO, Ye.V., prof. doktor geol.-min. nauk, otv. red.; ZAVIRYUKHINA, V.N., red.

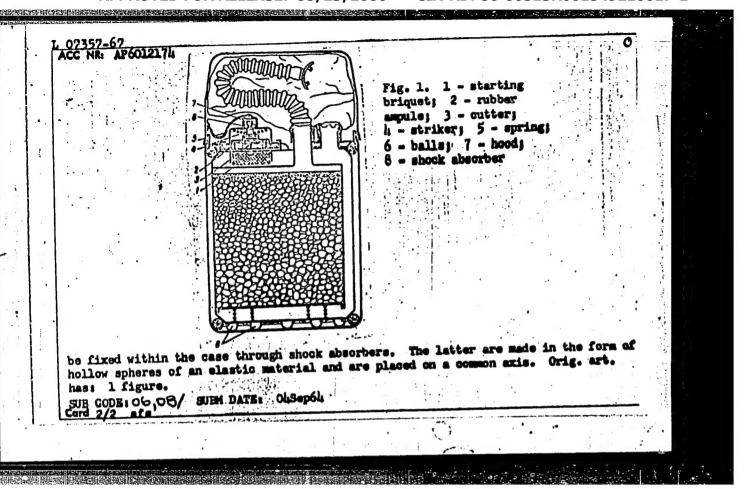
[Tectonic and physical conditions governing mineral transformations in solid rocks] Tektonofizicheskie usloviia mineral'nykh preobrazovanii v tverdykh gornykh porodakh. Kiev, Naukova dumka, 1964. 183 p.

(MIRA 18:8)



我的规则是是自由的自己的特别的关键。

SCURCE CODE: UR/OLI3/66/000/007/0107/0107 AP601217h AUTHORS: Artemenko, A. I.; Danilevskiy, H. G.; Kocherga, V. K.; Mukhin, V. A.; Nikolenko, I. L.; Filimonova, L. Is.; Shevchenko, Yu. A. B ORG: none TITLE: Mining isolating lifesaver. Class 61, No. 180491 /announced by Central Scientific Research Laboratory for Mining Rescue Work (Tsentral'naya nauchnoissledovatel'skaya laboratoriya po gornospasatel'nomi delu)/ SOURCE: Izobreteniya, promyshlennyye obrastsy, tovarnyye snaki, no. 7, 1966, 107 TOPIC TAGS: life support equipment, mining engineering, air ABSTRACT: This Author Certificate presents a mining isolating lifesaver containing a rechargeable cartridge, a breathing tube, a breathing bag, and a case (see Fig. 1). To insure the automatic performance of the starting assembly when the lid of the case is removed and the liquid of the starting ampule is set in a directed motion, the lifesaver is provided with a starting briquet, a rubber aspule with an internal blade for cutting it open, a striker pressed into the arch of the ampule, a spring, fixing balls, and a hood connected elastically to the lid of the case. To diminish the decomposition of the reagent containing oxygen in the rechargeable cartridge during transportation and wearing of the lifesaver, the rechargeable cartridge may



ACC NR: AP7002420

SOURCE CODE: UR/0051/66/021/006/0741/0748

AUTHOR: Fugol', I. Ya.; Pakhomov, P. L.; Shevchenko, Yu. P.

ORG: none

TITLE: Spectroscopic investigation of decaying helium plasma at 20K

SOURCE: Optika i spektroskopiya, v. 21, no. 6, 1966, 741-748

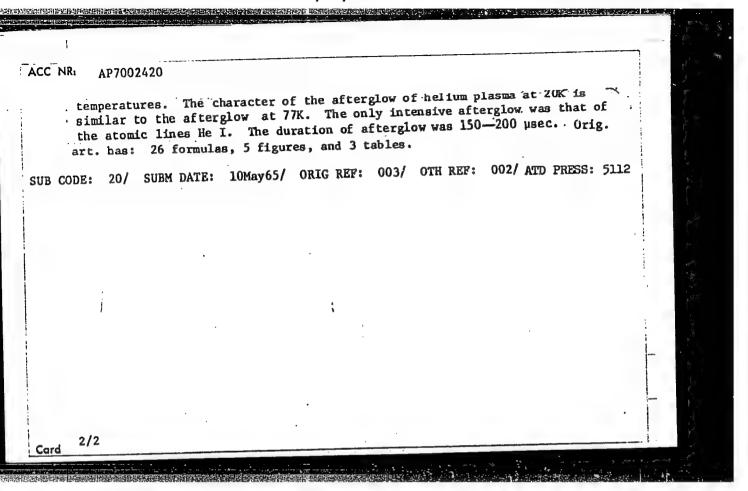
TOPIC TAGS: helium plasma, plasma decay, plasma diffusion, metastable state

ABSTRACT:

The helium plasma was excited in a quartz tube submerged in liquid hydrogen (20.4K). The luminescence was recorded through the liquid hydrogen. The helium pressure was varied from 0.1 to 80 mm Hg. The concentration of metastable atoms in the afterglow was determined by the absorption of the 3889 Å line from an external source. The rate of pair collision, on which depends the decay of metastable atoms and the diffusion coefficient D at different pressure p of metastable atoms, was determined. The average value for Dp at 20K is (Dp) aver = 95 cm²·sec⁻¹·mm Hg. A comparison of results shows that below 77K the variation of the diffusion coefficient does not follow the classical dependence Dp \sim T, a fact which is possibly linked with the effect of the quantum features of the diffusion process in helium at low

Card 1/2

UDC: 533.9 : 546.291



E/T(1)/E/T(m)/E/P(t)/ETI IJP(c) SOURCE CODE: UR/0057/66/036/007/1312/1314 66 ACC NR: AP6025263 65 AUTHOR: Pakhomov, P.L.; Fugol', I. Ya.; Shevchenko, Yu.F. OR. ORG: none TITLE: Temperature dependence of the diffusion cross section of metastable helium atoms in helium SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 7, 1312-1314 TOPIC TAGS: helium, metastable state, gas diffusion, plasma diffusion, particle cross section ABSTRACT: The authors have measured the diffusion cross section (defined as v/3ND, where v is the mean atomic velocity, N is the gas density, and D is the diffusion constant) of metastable (2^3S_1) helium atoms in helium gas at 77, 64, and 20° K by a plasma technique that has been described in detail by I.Ya.Fugol', P.L.Pakhomov, and G.P. Reznikov (Opt. i spektr., 16, 941, 1964). Plasmas were produced by 40 MHz discharges in a quartz tube containing helium at pressures (reduced to room temperature) ranging from 0.1 to 1.0 mm Hg and their decay was followed for up to 1.5 millisec by recording the absorption of the 3889 Å 2^3 S - 3^3 P helium line. The diffusion constants, calculated from the exponential decay curves on the assumption that the plasmas decayed entirely by diffusion to the wall of the vessel, were inversely proportional to the pressure within the 15% experimental error. The measured diffusion cross sections UDC: 533.9.07

ACC NR: AP6025263	보					/
were in good agreement Soc.,A213, 506, 1952). 10^{-15} cm ²) was 50% low 1204, 1953). At 20 $^{\circ}$ K 5 formulas and 3 figur	The diffusion of the diffusion that in the diffusion	on cross sect	ion at 77° K (a Thelms and J.P.	pproxi Molnar	ately 4.5 : (Phys.Rev.	x .89.
SUB CODE: 20 ATD PRESS:5-05-3	SUBM DATE:	02Aug65	ORIG.REF:	001	OTH REF:	005
Card 2/2 MLP						

BLOKH, G.A., doktor khimich. nauk, prof.; NEYMARK, I.Ye., doktor khimich. nauk, prof.; BORODUSHKINA. Kh.N., inzh.; BOGUSLAVSKIY, D.B., inzh.; SHEVCHENKO, Yu.G., inzh.

Molecular sieves and problems of rubber vulcanization. Izv. vys. ucheb. zav.; tekh. leg. prom. no.4:46-53 *63. (MIRA 16:10)

1. Dnepropetrovskiy khimiko-tekhnologicheskiy institut (for Blokh).
2. Institut fizicheskoy khimii AN UkrSSR (for Neymark.) 3. Dnepropetrovskiy shinyy zavod (for Borodushkina, Boguslavskiy, Shevchenko). Rekomendovana kafedroy tekhnologii reziny Dnepropetrovskogo khimiko-tekhnologicheskogo instituta.

SHEVCHENKO, YU. G.

36837. O roli kory bolyshikh polusharny mozga v formirovanii boli. (Uslovnyye sosudistyye refleksy pri fantomiykh bolyakh). Soobshch. 1. Nevropatologiya i psikhiatriya, 1949, No. 6, c. 55-62

SO: Letopis' Zhurnal'ynkh Statey, Vol. 50, Moskva, 1949

KAMINSKIY, S.D.; SHEVCHENKO, Yu. G.

Defective theory producing defective practice. Nevropat.psikhiat.,
Noskva 20 no.1:23-29 Jan-Feb 51. (CIML 20:6)

1. Prof.S.D.Kaminskiy; Dr. Medical Sciences Yu. G. Shevchenko.
2. Moscow.

SHEVCHENKO, Yu.G.

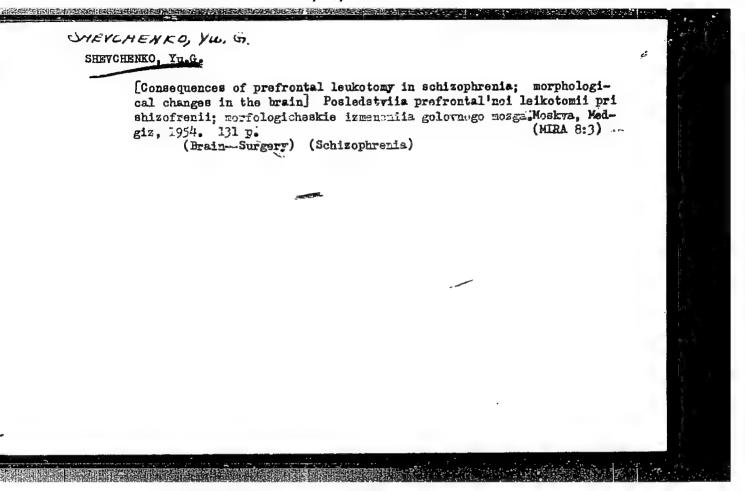
Production of cortical pain inhibition in foci of residual stimulation in the cerebral cortex. Hevropat. psikhiat., Moskva 20 no.6:41-49 Hov-Dec 51.

1. Doctor Medical Sciences USSR. 2. Of the Laboratory of the Physiology and Pathology of Higher Nervous Activity (Head--Prof. S.D. Kaminskiy), Central Institute of Psychiatry of the Ministry of Public Health RSFSR.

SHEVCHENKO, Yu.G.; KUZNETSOVA, A.I.

Gombined method of preparation of the brain and modification of stains for the study of cellular and fibrous systems. Arkh. anat., Moskva 29 no.4:83-89 July-Aug 1952. (CIML 23:2)

1. Of the Patho-Architectonic Laboratory (Head -- Doctor Medical Sciences Yu. G. Shevchenko), Central Institute of Psychiatry (Director -- Docent D. Ye. Melikhov), Ministry of Public Health RSFSR.



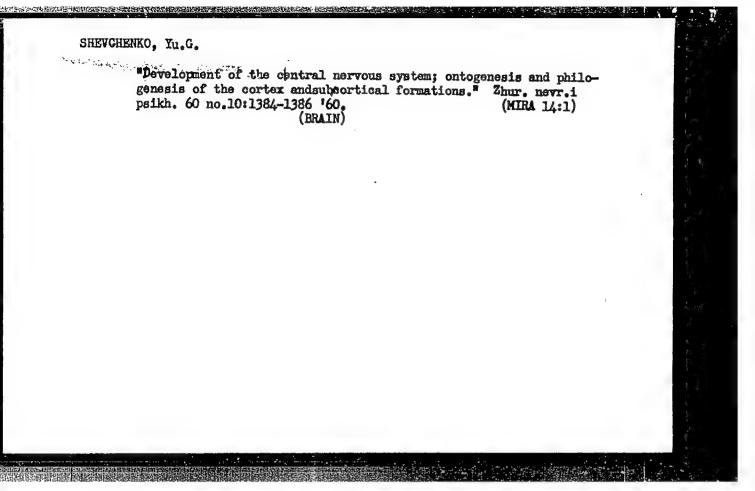
SHEVCHENKO, Yu.G., doktor med.nauk

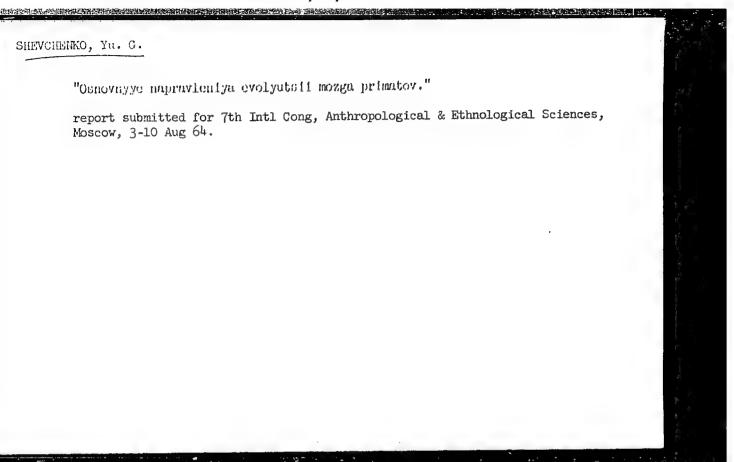
Individual and group variations in the structure of the cerebral cortex of the inferior parietal region in contemporary men.

Vest.AMN SSSR 11 no.5:35-46 56. (MIRA 12:10)

1. Iz Instituta antropologii Moskovskogo gosudarstvennogo universiteta.

(PARIETAL LOBE, anat. and histol. structural variations in modern man)





SHEVCHENKO, Yu.M.

Operation of LPG-2-3000 draw works in exploratory drilling stations. Neftianik 2 no.10:7-8 0 '57. (MIRA 10:12)

1. Starshiy inzhener proizvodstvenno-tekhnicheskogo otdela tresta Tyumen'neftegeologiya.

(Winches)

S/021/60/000/001/004/013 A158/A029

16.7300

AUTHOR:

Shevchenko, Yu.M.

TITLE

Thermal Stresses in Disks in an Elastic-Plastic Stressed State With

a Power Condition of Plasticity With Reinforcement

PERIODICAL:

Dopovidi Akademiyi nauk Ukrayins'koyi Radyans'koyi Sotsialistychnoyi

Respubliky, 1960, No. 1, pp. 27 - 31

TEXT: The author examines an elastic-plastic state in symmetrically heated [in conformity with the law $\varepsilon_t = \varepsilon_0 + \varepsilon_1 \rho^n$, (2)] thin, solid disks of constant thickness. The dependence curve of the intensity of tangential stresses S on the intensity of the shift E (in the elastic-plastic regions) is approximated by the power function S = KE^{μ} (8), where K and μ are constants, depending on the material. Poisson's coefficient is assumed to be v=0.5. The solution of the problem is reduced to the integration of a system of equations

$$\frac{\Phi}{\mu} R \frac{d \ln \xi}{d R} = -2 \sin^2 \varphi - \frac{n R n}{\mu \sqrt{\xi}} \sin(\varphi + \frac{\pi}{6}), \qquad (13)$$

with boundary conditions

$$\varphi = 0$$
 when $R = 0$ and $\varphi = -\frac{2}{3}\pi$ when $R = R_0$. (17)

Card 1/2

SHEVCHENKO, Yu.M., starshiy inzh.

Using 2 1/2" tubing as drill pipe. Neftianik 6 no.8:8-9 Ag 161. (MIRA 14:10)

1. Otdel bureniya Tyumenskogo geologicheskogo upravleniya. (Oil well drilling—Equipment and supplies)

·22673

\$/198/61/007/002/002/004

D204/D303

24.4290 AUTHOR: 1103, 1327, 1109

Shevchenko, Yu. M.,

TITLE:

Application of Castigliano's variational method for

stressing a thick-walled cylinder

PERIODICAL: Prykladna mekhanika, v. 7, no.2, 1961, 149-156

TEXT: In this work Castigliano's variational method is used to stress a thick-walled cylinder under the action of centripetal forces, uneven temperature and pressure loading p(z) kg/cm² on the outer surface. This method has recently been developed by M.M. Filonenko-Borodich (Ref 1: Zadacha O ravnovesii uprugogo parallelepi~peda pri zadannykh nagruzkakli na yego granyakh, PMM, XV, 2, 1951 and (Ref 4: O zadache lame dlya parallelepipeda v obshchem sluchaye poverkhnostnykh nagruzok, PMM, v XXI, 4, 1957) and his associates for space problems of the theory of el-asticity. The cylinder is bounded by two coaxial cylindrical surfaces of radii $r_0 > r_1$) and two planes z=0 and z=1. Cylindrical

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S/198/61/007/002/002/004 D204/D303

Application of Castigliano's variational

relative coordinates are used $\varrho = \frac{r}{r_0}$; $\zeta = \frac{z}{r_0}$, and $\varrho_1 < \varrho < 1$; $0 < \zeta < \varepsilon$. (1.2) where $\varrho_1 = \frac{r_1}{r_0}$; $\varepsilon = \frac{l}{r_0}$. (1.3) Temperature deformation α t is assumed to be

 $al = \sum_{j=0}^{n} (l_j + n_j q^{l_j} + m_j q^{l_j}) e^{ijt}$, (1.4) where l_j , m_j , m_j , m_j , m_j , and

 n_j - various constants which can be adjusted to approximate the actual oxisymmetrical temperature distribution. The boundary conditions are

$$\sigma_r = \rho(\zeta), \quad \tau_{rz} = 0 \quad \text{при } \quad \varrho = 1;$$

$$\sigma_r = 0, \quad \tau_{rz} = 0 \quad \text{при } \quad \varrho = \varrho_1;$$

$$\sigma_z = 0, \quad \tau_{rz} = 0 \quad \text{при } \quad \zeta = 0 \quad i \quad \zeta = \epsilon.$$

$$(1.5)$$

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S/198/61/007/002/002/004 D204/D303

Application of Castigliano's variational .

To use Castigliano's variational method, the stress tensor will be given as a sum of the basic and correcting tensors. Components of the basis tensor should satisfy conditions (1.5) and given equilibrium equations. For the correcting tensor the boundary conditions are all equal to zero $p(\xi) = 0$ and $\omega = 0$. In addition, its components should have free terms to satisfy the condition that the following fuction should be a minimum

 $W = \pi r_0^3 \int_0^1 \int_{\rho_1}^1 \left[\sigma_r^2 + \sigma_{\varphi}^2 + \sigma_z^2 - 2v \left(\sigma_r \sigma_{\varphi} + \sigma_r \sigma_z + \sigma_{\varphi} \sigma_z \right) + \right]$ (1.7)

Components of the correcting tensor, unlike those of the basic tensor, depend only on the shape of the body. In constructing the basic stress tensor it is assumed that in the central section σ_{τ} and σ_{ϕ} are the same as in an infinitely long cylinder (for which

· Card 3/6

S/198/61/007/002/002/004 D204/D303

Application of Castigiliano's variational

 ϵ_z = const.) and σ_z , τ_{rz} are equal to zero. The components are found separately for pressure loading, centrifugal effect and temperature effect. The correcting tensor ϵ_z and ϵ_{rz} and also corrects for the following: for deviation of p() from the linear law, for the effect of free ends of the cylinder and for the axial variation of temperature. To the first approximation the stress components are

$$\sigma_{r=e} = \frac{\sigma_{r}^{(3)} + \frac{1}{\varrho} \sin \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} \left(A_{10} + A_{11} \cos \frac{\pi \zeta}{\varrho} + A_{12} \cos \frac{2\pi \zeta}{\varrho} \right) + \frac{A_{22}}{\varrho} \sin \frac{2\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} \cos \frac{2\pi \zeta}{\varrho}; \qquad (4.1)$$

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22673 S/198/61/007/002/002/004 D204/D303

Application of Castigliano's variational . .

$$\sigma_{\varphi} = \sigma_{\varphi}^{(0)} + \frac{\pi}{1 - \varrho_{1}} \cos \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} \left(A_{10} + A_{11} \cos \frac{\pi \zeta}{\epsilon} + A_{12} \cos \frac{2\pi \zeta}{\epsilon} \right) +$$

$$+ \frac{2A_{22}\pi}{1 - \varrho_{1}} \cos \frac{2\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} \cos \frac{2\pi \zeta}{\epsilon} + \varrho \sin \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} [B_{10}P_{0}^{*}(\zeta) + B_{11}P_{1}^{*}(\zeta)];$$

$$\sigma_{z} = \sigma_{z}^{(0)} - \left[\frac{1}{\varrho} \sin \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} + \frac{\pi}{1 - \varrho_{1}} \cos \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} \right] [B_{10}P_{0}(\zeta) + B_{11}P_{1}(\zeta)];$$

$$\tau_{rz} = \tau_{rz}^{(0)} + \sin \frac{\pi (\varrho - \varrho_{1})}{1 - \varrho_{1}} [B_{10}P_{0}^{*}(\zeta) + B_{11}P_{1}^{*}(\zeta)].$$

Here, index (o) denotes total components of the basic tensor which depends on the conditions to which the cylinder is subjected. Parameters $A_{10} \cdot \cdot \cdot \cdot B_{11}$ are obtained from a system of six equations

of the form / Card 5/6

$$\frac{\partial W}{\partial A_{mn}} = 0; \quad \frac{\partial W}{\partial B_{mn}} \doteq 0.$$

(3.6)

S/198/61/007/002/002/004 D204/D303

Application of Castigliano's variational . . .

As an example thermal stresses are found for a solid disc. From the given temperature, distribution constants in Eq.1.4, are determined for each section and Eq. 3.6 solved. Then stresses are found by means of the derived formulae. Two solutions are given which satisfy consistency conditions; in one, those on the cylindrical surface are satisfied exactly, but those on the free ends approximately, and vice versa in the other. When loads from the face ends are removed the two solutions converge. There are four figures, I table and 8 Soviet-bloc references.

ASSOCIATION: Kyyivs'kyy politekhnichnyy instytut (Kiev Polytechnic

Institute)

SUBMITTED: December 15, 1958

Card 6/6

SHEVCHENKO, Yu. M.

Scientific conference on thermal stresses in structural elements. Prykl. mekh. 8 no.6:683-684 '62. (MIRA 15:10)

(Thermal stresses)

SHEVCHENKO, Yu. N.: Master Tech Sci (diss) -- "The axial-symmetry problem of thermal stresses with a variable modulus of elasticity". Kiev, 1958. 12 pp (Acad Sci Ukr SSR, Inst of Construction Mechanics), 150 copies (KL, No 7, 1959, 127)

SHEVCHENKO, Yu.N. [Shevchenke, IU.M.] (Kiyev)

Thermal stresses in thick-walled cylinders in case of changes of elastic modulus along the genertrix of cylinders. Prykl. mekh. 4 no.4:401-410 '58. (MIRA 11:12)

1.Kiyevskiy politekhnicheskiy institut. (Blastic plates and shells) (Thermal stresses)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549210017-1

SOV-21-58-10-6/27 Shevchenko, Yu.N. AUTHOR: A General Solution of the Theory of Elasticity Problem with a Variable Modulus (Obshcheye resheniye zadachi teorii upru-TITLE: gosti pri peremennom module) Dopovidi Akademii nauk Ukrains'koi RSR, 1958, Nr 10, PERIODICAL: pp 1054 - 1057 (USSR) The author gives a general solution of the following equation of equilibrium in displacements with the modulus of elasticity ABSTRACT: varying according to an exponential law $\Delta \vec{u} + \frac{2v}{1-2v}$ grad div $\vec{u} + \frac{2v}{1-2v}$ grad (ln G) div $\vec{u} + (\text{grad ln G grad})\vec{u} + (\text{grad ln G u}) - (\vec{u} \text{grad}) \text{grad ln G} = \frac{2(1+v)}{(1-2v)G} \text{grad}(\text{fort G}) - \frac{1}{G}$ where u is the displacement vector; Y is a Poisson coefficient; G is elasticity modulus of the second kind; & L is temperature deformation K is the vector of space forces, and Δ () is Laplacian operator. In solving the problem the author makes use of the Luriye method Ref.l 7. In the case of the axisymmetrical problem, the solution obtained makes it pos-Card 1/2

A General Solution of the Theory of Elasticity Problem with a Variable SOV/21-58-10-6/27

> sible to take into account the change in the modulus of elasticity along the generatrix only. In the case of a constant modulus the solutions found pass over into the known solutions of the theory of elasticity, such as those of B.G. Galerkin Ref.27, G.D. Grodskiy and A. Lyav. There are 2 Soviet references.

ASSOCIATION:

Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical Institute)

PRESENTED:

By Member of the AS UkrSSR, G.N. Savin

SUBMITTED:

May 21, 1958

NOTE:

Russian title and Russian names of individuals and institutions appearing in this article have been used in the

transliteration.

1. Elasticity--Theory 2. Poisson integrals 3. Operators (Mathematics)

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000

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PHASE I BOOK EXPLOITATION

SOV/4178

Akademiya nauk Ukrayins'koyi RSR. Instytut budivel'noyi mekhaniky

Zadachi termopruzhnosti v energomashynobuduvanni (Problems of Thermoelasticity in Power-Machinery Construction) Kyyiv, 1960. 176 p. 1,000 copies printed.

Ed. of Publishing House: T.K. Remennik; Resp. Ed.: H.M. Savin, Academician, Academy of Sciences UkrSSR; Tech. Ed.: O.M. Lysovets'.

PURPOSE: This book is intended for turbine designers.

COVERAGE: This book is a collection of 8 Ukrainian articles based on work under the general supervision of A.D. Kovalenko. Each article has a short summary in Russian. The object of the study is to test turbine elements for stress conditions, especially those due to nonuniform heating. References accompany each article.

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S/124/62/000/009/025/026 A057/A101

1.360

Shevchenko, Yu. N. AUTHOR:

Bending of a disc at non-uniform heating and power conditions of

plasticity with strengthening TITLE:

Referativnyy zhurnal, Mekhanika, no. 9, 1962, 28, abstract 9V198 PERIODICAL:

(In collection: "Teplovyye napryazheniya v elementakh turbomashin.

v. 1", Kiyev, AS UkrSSR, 1961, 103 - 109)

The problem of bending of a uniform disc with constant thickness under the influence of an axisymmetric temperature field which changes along the thickness of the disc according to the linear law, and along the radius - to the power law, is discussed. The material of the disc is supposed to be non-compressible; the curve of dependence of the intensity of tangential stresses upon intensity of shear deformation in elastic and plastic region is approximated by a power function. By generalization of the solution for uniformly heated discs at analogous properties of the material (V. V. Sokolovskiy, Theory of plasticity, Moscow, Gostekhizdat, 1950) the bending moments and parameters of curvature in

Card 1/2

Bending of a disc at...

S/124/62/000/009/025/026 A057/A101

the radial and peripheral directions are represented in the form of trigonometric functions, satisfying a system of two non-linear differential equations of first order. The obtained equations and boundary conditions coincide with the corresponding equations of the stressed state of the disc at its nonuniform heating along the radius only. Results of one numerical solution are presented. The problem is also generalized to the case of a temperature field which effects not only bending, but also expansion of the middle plane of the disc.

[Abstracter's note: Complete translation]

B. F. Shorr

Card 2/2

SHEVCHENKO, Yu.N. [Shevchenko, IU.M.] (Kiyev)

Using Castigliano's variational method in determining the stressed state of a thick-walled cylinder. Prykl.mekh. 7 no.2:149-156 '61. (MIRA 14:4)

1. Kiyevskiy politekhnicheskiy institut.
(Elastic plates and shells)

SHEVCHENKO, Yu. N. [Shevchenke, IU.M.]

Scientific conference on thermal stresses in elements of turbomachines. Pryki.mekh. 7 no.6:586-687 '61.

(MIRA 14:11)

(Thermal stresses)

SHEVCHENKO, Yu.N. [Shevchenko, IU.M.]

Theorem of the reciprocity of work and variational equations in the theory of elasticity. Dop. AN URSR no.2:179-182 '62. ... (MIRA 15:2)

1. Institut mekhaniki AN USSR. Predstavleno akademikom AN USSR A.D. Kovalenko.

(Elasticity)

SHEVCHENKO, YU. N.

20

PHASE I BOOK EXPLOITATION

SOV/6086

Nauchnoye soveshchaniye po teplovym napryazheniyam v elementakh turbomashin. 2d, Kiyev, 1961.

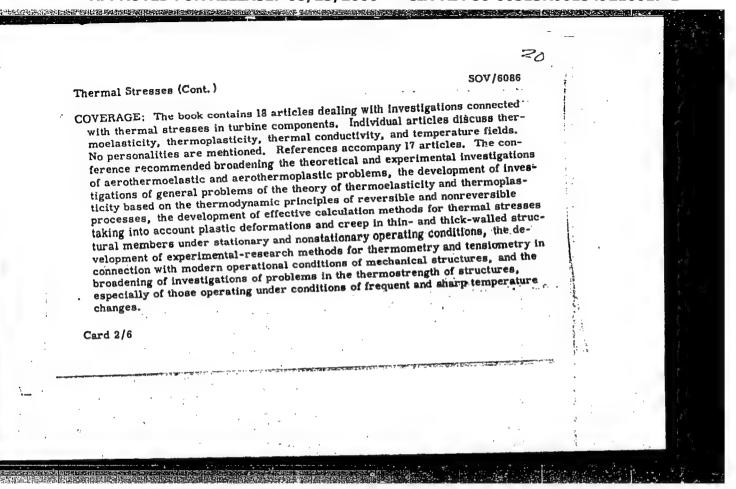
Teplovyye napryazheniya v elementakh turbomashin; doklady nauchnogo soveshchaniya, vyp. 2 (Thermal Stresses in Turbomachine Parts; Reports of the Scientific Conference, no. 2). Kiyev, Izd-vo AN UkrSSR, 1962. 174 p. 1800 copies printed.

Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut mekhaniki.

Resp. Ed.: A. D. Kovalenko, Academician, Academy of Sciences UkrSSR; Ed.: T. K. Remennik; Tech. Ed.: A. M. Lisovets.

PURPOSE: This collection of articles is intended for scientific workers and turbine designers.

Card 1/6



Thermal Stresses (Cont.)	SOV/6086
Shevchenko, Yu. N. [Kiyev]. Application of the Theorem of Recijof Work to the Investigation of Elastic-Plastic Problems	procity 62
Shevchenko, Yu. N. [Kiyev]. State of Stress of Rapidly-Rotating uniformly Heated Disks Under Power-Law Plasticity Conditions Strain Hardening	Non- With 75
Vol'mir, A. S., and P. G. Zykin [Moscow]. Stability "in the Lar Shells Under Creep Conditions	ge" of 81
Podstrigach, Ya. S., and V. Yu. Kruchkevich [L'vov]. On the Ef Inertial Forces on the State of Stress Caused by Periodic Change Temperature Field	fect of es in the 90
Comarov, G. N., Z. D. Kostyuk, M. B. Ustinovskiy, and G. A. [Kiyev]. Measuring Temperatures and Deformations in a Mediu	ım-Thick
[Kiyev]. Measuring Temperatures and Deformations in a Mediu Disk	Tabiyeva ım-Thick 97

SHEVCHENKO, Yu.N. [Shevchenko, IU.M.]

Fourth scientific conference on thermal stresses in structural elements. Frykl. mekh. 9 no.6:686-688 '63. (MIRA 16:12)

GRIGORENKO, Ya.M.; SHEVCHENKO, Yu.N.

Anatolii Dmitrievich Kovalenko, 1905-; on the occasion of his 60th birthday. Prikl. mekh. 1 no.1:133-137 '65.

(MIRA 18:5)

EWT(d)/EWT(m)/EWP(w)/EWA(d) 1 15617-65 IJP(c)

AP5006454

5/0021/65/000/002/0180/0184

AUTHOR: Shevchenko, Yu. M. (Shevchenko, Yu. N.)

26 26

TITLE: A differential equation of a disc with an asymmetrical profile

B

Depovidi, no. 2, 1965, 180-184

ACCESSION NR:

TOPIC TAGS: elasticity theory, axial symmetry, asymmetrical disc, temperature

field, surface tension, centrifugal force

ABSTRACT: The article deals with the stressed state of a disc with asymmetrical profile, such as a round plate of variable thickness, situated in an axially symmetrical three-dimensional temperature field, under the influence of exiallysymmetrical surface tension and centrifugal forces. The theory is simplified by neglecting certain factors which become small when the thickness of the disc is much smaller than its radius. The differential equations are derived on the basis of the quations of the axially symmetrical elasticity theory and the Kirchhoff-Love hypothesis on the inverience of the normal element. This report was presented by A. D. Kovalenko. Orig. art. has: 1 figure and 23 formulas.

| Card 1/2

ACCESSION NR: AP5006454

ASSOCIATION: Instytut mekhaniky AN URSR [Institut mekhaniki AN UkrSSR] (Institute of Mechanics, AN UkrSSR)

SUEMITTED: O9Ja.64 ENCL: OO SUB CODE: ME, GP

NR REF SOV: OOl OTHER: OOO

EWT(d)/EWT(m)/EWP(w)/EWP(v)/EWP(j)/T/EWP(t)/ SOURCE OOD'S: UR/0198/65/001/010/01 **《主义法》,而出民民民党的政策和法院,以为政策的国际,以为政策的政策,对对法院** JD/WW/EM/JXT(PG)/RM 13641-66 ACC NR. 176000243 TITLE: Sixth scientific conference on thermal stresses in elements of structures AUTHOR: TOPIC TAGS: solid mechanical property, mechanics, physics conference, thermal stress, SOURCE: Prikladnaya mekhanika, v. 1, no. 10, 1965, 141-142 ORG: none ABSTRACT: The Sixth Scientific Conference on Thermal Stresses in Members of Structures took place at Kiev from 6 to 12 June 1965. The conference was organized by the Scientific Conference on Thermal Stresses in Members of Structures. structure stability, stress analysis, plastic deformation, creep ABSTRACT: The Sixth Scientific Conference on Thermal Stresses in Members of Structures took place at Kiev from 6 to 12 June 1965. The conference was organized by the Department of tific Council for Scientific Principles of Strength and Plasticity in the Department of Mechanics and Control Processes. Academy of Sciences USSR: the Institute of Mechanics and Control Processes. tific Council for Scientific Principles of Strength and Plasticity in the Department of Mechanics, Mechanics and Control Processes, Academy of Sciences USSR; the Institute of Mechanics, Academy of Sciences USSR; and the Kiev State University imeni Shevchenko. Mechanics and Control Processes: Agademy of Sciences WSSR; the Institute of Mechanics About 300

Academy of Sciences USSR; and the Riev State University imeni Shevchenko. industrial representatives of scientific societies. schools of higher education. and industrial Academy of Sciences USSR; and the Kiev State University imeni Shevchenko. About SU representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education, and industrial Representatives of scientific societies, schools of higher education and industrial Representatives of scientific societies, schools of scientific s representatives of scientific societies, schools of higher education, and industrial Livov, Chelya-enterprises from Moscow, Leningrad, Kiev, Riga, Khar'kov, Novosibirsk, Livov, Saners consenterprises from Moscow, Leningrad, Kiev, Riga, the conference, and 5% namers consenterprises and other cities of the IESSR took part in the conference, and 5% namers consenterprises and other cities of the IESSR took part in the conference. enterprises from Moscow, Leningrad, Kiev, Riga, Khar'kov, Novosibirsk, L'vov, Chelyabinsk, and other cities of the USSR took part in the conference, and 53 papers considers, and other cities of the USSR took part in the conference, and 53 papers considers, and other cities of the USSR took part in the conference, and 53 papers considers the following fields were delivered and discussed: (1) senaral problems. binsk, and other cities of the USSR took part in the conference, and 53 papers concerning the following fields were delivered and discussed: (1) general problems in designing nonuniformly heated structures with plasticity and residual stresses during deration—7 papers; (2) theory of generation of thermal and residual stresses derative derative fields—6 papers; (5) welding, casting, heat thermoplasticity of disks—3 papers; (4) 3 resolution in the papers; (5) disks—3 papers; (6) dynamic structures made papers; (5) 2500 clast 12 mechanics associated with gressive thermal buckling and the stability of thin-walled structures in the presence of steady and unsteady temperature fields—6 papers; (8) methods and means for gressive thermal buckling and the stability of thin-walled structures in the presence of steady and unsteady temperature fields—6 papers; (8) methods and means for a trace of the stability of t experimental investigations of strains and stresses—3 papers; (9) various special problems in thermoelasticity, mainly those associated with gas turbines—7 papers. problems in thermoelasticity, mainly those associated with gas turbines—7 papers.

The chairman of the organizational committee, A. D. Kovalenko, opened the conference and devalorments in the fields of science range. and gave a brief survey of trends and developments in the fields of science repreand gave a brief survey of trends and developments in the rields or science represented in the papers submitted. The resolutions of the conference include recommendations concerning further trends in investigations in the fields of thermoplasticity dations concerning further trends in investigations in the ileids of thermoplasticity dynamics, and coupled and three-dimensional thermoelasticity problems. The following aynamics, and coupled and three-dimensional thermoelasticity problems. The following are pointed out as primary problems: the experimental investigation of the effect of complex loading under nonuniform heating; the development of methods for solving complex loading under nonuniform neating; the development of methods for solving thermoplasticity problems based on modern theories of plasticity; the development of methods for evaluating the strength of structures subject to temperature changes, particularly of those based on the theory of accommodation in investigating the particularly of those based on the theory of accomposation in investigating the residual stresses caused by manufacturing processes; the development of methods for restructures associated with the behavior of structures made of Card 2/3

different mater on thermal stread of thermoplastic	ials, including	g synthe	etics a	nd others	• The :	ext scien	tific confe	rence
of thermoplastic	Turn ble	988: 4]	162- <u>F</u> 7		na dead	red mainly	to proble	ms ·
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SHEVCHENKO, Yu.P., inzh.

Compensation of the frequency characteristics of the ShRPS-IV linear amplifier. Avtom., telem. i sviaz' 7 no.11:36-37 N '63.

(MIRA 16:12)

1. Sal'skaya distantsiya signalizatsii i svyazi Severo-Kavkazskoy dorogi.

MAL'NEV, A.F.; KREMENCHUGSKIY, L.S.; EEREZKO, B.N.; SHEVTSOV, L.N.;
BOGDEVICH, A.G.; KIRILLOV, G.M.; CHASHECHNIKOVA, I.T.;
YARMOLENKO, N.A.; OFENCENDEN, R.G.; SERMAN, V.Z.;
DALYUK, Yu.A.; EEREZIN, F.N.; KONENKO, L.D.; SHALEYKO, M.A.;
SHEVCHENKO, Yu.S.; STOLYAROV, V.A.; KIRILLOV, G.M.; BOGDEVICH, S.F.;
LYSENKO, V.T.; ERASHKIN, N.A.; SKRIPNIK, Yu.A.; GRESHCHENKO, Ye.V.;
TUZ, R.M.; SERPILIN, K.L.; GAPCHENKO, L.M.

Abstracts of completed research works. Avtom. 1 prib. no.3:90-91
J1-S '62.

1. Institut fiziki AN UKrSSR (for all except Skripnik,
Greshchenko, Tuz. Serpilin, Gapchenko). 2. Kiyevskiy
politekhnicheskiy institut (for Skripnik, Greshchenko, Tuz,
Serpilin, Gapchenko).

(Research)

EMG(1)/EMG(r)/EMT(1)/FS(v)-3/EMG(v)/EMG(a)-2/EMG(c)Pe-5 DD 8/0240/65/000/003/0022/ Shevchenko, Yu. S. AUTHOR: TITLE: Dynamics of some functional changes in the organism due to vibration SOURCE: Gigiyena i sanitariya, no. 3, 1965, 22-26 TOPIC TAGS: vibration, biological effect, basal metablism, hemodynamics, oxygen consumption, respiration, nervous system ABSTRACT: The author exposed white rats for 4 hr a day to 40—42-cps vibrations with an amplitude of 0.4—0.45 mm. A special tage was attached to the vibration stand. The average duration of the experiment was 6 weeks. Reactions to vibration were studied as a function of the state of the central nervous system, the peripheral vasculature, and the blood, and determinations were made of oxygen consumption, basal metabolism, weight, and rectal temperature. After the first day, oxygen consumption increased from 1348 ± 73 to 1507 ± 43 ml/kg/hr. There was no increase on the second day. By the third week, oxygen consumption began to fall, and from the fourth through the sixth week, consumption after vibration was comparable to normal morning levels. No significant differences between morning and evening consumption levels were observed in the control group. This would indicate that vibration does

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	o permanent changes in oxygen consumption and that rats are able to	
	for vibration. Initial changes in body weight due to vibration were	
	eable during the first week. After one week, mean body weight fell from	
	g to $2^{h}3 \pm 7.1$ g. By the sixth week it had increased to 263 ± 9.8 g.	4.4
	, the greatest discrepancy between experimental and control weight was which the fourth week. We inanges in restal temperature due to vibration	
	oi. Fimilarly no significant hematological shifts due to vibration were	
	on the agent terrease in the mean temoglobin content in the experimental	19.
group aft	r two tests. This decrease in hemoglobin content in the blood of the	
	al arimals persisted throughout the entire experiment. The early lowered	
	to the direct of you souft attests to the rapid effect of virtuin.	
•	The title to system. The late indicated that vibration depresses sirenal	
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-	in the command lead to the first largements, the reaction of the Prints	
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	the ignorative innibition. The was malar reaction indicated that this	
• • •	must sensitive to the effects of vibration. Orig. art. has: [tables.	
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ALEKSANDROV, Grigoriy Petrovich[Aleksandrov, H.P.]; DUDNIK, Vera
Nikolayevna[Dudnyk, V.M.]; KITYK, Vasiliy Ivanovich;
SURZHOK, Grigoriy Dmitriyevich [Surzhok, H.D.]. Prinimal
uchastiye <u>SHEVCHENKO</u>, Yu.Y.; PORFIR'YEV, V.B., akademik,
otv. red.; MEL'NIK, G.F.[Mel'nyk, H.F.], red. izd-va;
DAKHNO, Yu.B., tekhn. red.

[Kalussite, a new potassium fertilizer]Kalushyt - nove kaliine dobryvo. [By]G.P.Alekandrov ta inshi. Kyiv, Vyd-vo Akad.nauk URSR, 1962. 133 p. (MIRA 16:3)

1. Akademiya nauk Ukr. SSR (for Porfir'yev)
(Ukraine--Kalussite)

ALEKSANDROV, G.P.; SHUTER, Ys.N.; SHEVCHENKO, Yu.V.

Volumetric determination of cobalt by means of potassium permanganate.
Ukr,khim.zhur. 28 no.7:871-874 162.

1. Institut geologii poleznykh iskopayemykh.
(Cobalt—Alalysis) (Potassium permanganate)

ALEKSANDROV, G.P.; DEMKIV, O.T.; SHEVCHENKO, Yu.V.; SHEREMET'YEV, S.Kh.

Flame-photometric determination of strontium in a methane-air flame using the SF-5 spectrophotometer. Ukr.khim.zhur. 29 no.6:623-627 (MIRA 16:9)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR. (Strontium--Spectra) (Flame photometry)

ALEKSANDROV, G.P.; SHEVCHENKO, Yu.V.

Composition and properties of mixed hexanitrocobaltates of rare-earth elements with potassium. Ukr. khim. zhur. 30 no.1:12-18 '64. (MIRA 17:6)

1. Institut geologii goryuchikh iskopayemykh AN UkrSSR.

ALEKSANDEOV, G.P. [deceased]; SHEVCHENKO, Yu.V.

1. Institut geologii i geokhimii goryuchikh iskopayemykh AN UkrSSR. Submitted May 28, 1964.

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1. 09271-67 - EMT(4) SCTB DD/GD		
ACC NR: AT6036466 SOURCE CODE: UR/0000/66/000/000/0011		
AUTHOR: Agadzhanyan, R.A.; Kalinichenko, I. R.; Kuznetsov, A. G.; Lepikhova, I. I.;		
Nikulina, G. A.; Osipova, M. N.; Reutova, M. B.; Sergiyenko, A. V.; Shevchenko, Yu.v.		
ORG: none	· · · · · · · · · · · · · · · · · · ·	
N B+1		
TITLE: Effect of rapidly increasing hypoxia on the human organism (Paper presented at conference on problems of space medicine held in Moscow from 24-27 May 1966)		
	1	
SOURCE: Konferentsiya po problemam kosmicheskoy meditsiny, 1966. Problemy kosmicheskoy meditsiny. (Problems of space medicine); materialy konferentsii, Moscow	1	
1966, 10-11		
TOPIC TAGS: hypoxia, spirography, electrocardiogram, human physiology		
ABSTRACT: In order to determine the time available for taking countermeasures		
during a rapid drcp in partial oxygen pressure, the resistance of the body		
to rapidly increasing hypoxia was studied in 28 human subjects by the re-		
breathing method using a spirograph filled at the start with 8.5 1 of atmospheric air. The O ₂ content of this air decreased as the oxygen was used up:	4	
CO2 was chemically absorbed.	_ :	
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ACC NR: AT6036465

The external appearance of the subjects, their behavior, and reported subjective sensa ions were monitored as a check on their general condition; were reported on conditioned reflex activity, brain biocurrents, motor coordination, the functional state of the cardiovascular and respiratory systems and blood oxygen absorption levels; and studies of the composition of peripher: plood and the functional state of the adrenal cortex were made,

The results showed that rapidly increasing hypoxia produces functional changes leading to loss of consciousness if oxygen is not quickly administered. Reserve time (time from beginning to breathe the hypoxic mixture until the hypoxic mixture is cut off) amounted on the average to 6 min 28 sec 15 min 27 sec to 10 min 02 sec). This was equivalent to an "altitude ceiling" of 10150 m (0100 to 11400 m). The O2 content in the respired air at the end of the experiment was 4.44% (pO2 = 31.3 mm Hg); blood oxygen saturation dropped to an average of 53.2% (42% to 64%). Hypoxia symptoms observed during the experiment included: cyanosis of the epidermis and mucosa; dyspaca, drowsiness, impaired handwriting, and sometimes even muscle spasms in the hands. Many subjects complained of respiratory distress, dizziness, dimness of vision, heat, headache, etc. -

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t. 03271-67

A. Rilly Sight

The intent jeried in time required to solve arithmetical problems inercosed and motor coordination was impaired. Both the time required to solve problems and the number of errors increased more than three-fold over initial data

Three phases were distinguished in EEG changes: 1) suppression of the alpha cythm 2) reactivation of alpha chythm; 3) onset of slow waves (2 to 4 per inch).

Frequency and depth of respiration and minute volume increased during hypoxia, and the oxygen requirement and O₂ utilization coefficient decreased. Arraylal oxygen saturation decreased from 46% to 98% at the start to 49% to 55% at the end of the experiment.

EKGs made during rapidly increasing hypoxia showed a progressive increase in the pulse rate and a decrease in the amplitude of R and T waves.

Peripheral blood composition immediately and one hour after exposure to hypoxia showed increased erythrocyte counts and hemogolobin content. The amount of 17-or scorticosteroids in the plasma increased from 16 to 17 y% of the onset of 55.3 to 44.2 y % during the aftereffect period.

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1 39285-65 EWI(a)/EPF(c)/EWP(3)/EWA(c)/T Pc-4/Pr-4 RPL S/0081/64/000/020/S035/S035 ACCESSION NR: ARSO03009 SOURCE: Ref. zh. Khimiya, Abs. 20S190 AUTHOR: Peshekhonova, A. L.; Kamenskiy, I. V.; Korshak, V. V.; Solodkin, L. S.; shazebenko, Yu. V. TITLE: A study of the formation of furfural polymers in the presence of hexamethylenetetramine A CITED SOURCE: Tr. Mosk. khim.-tekhnol, in-ta im. D. I. Mendeleyeva, vyp. 42, 1963, 137-142 TOPIC TAGS: furfural polymer, hexamethylenetetramine polymer, polymer fractionstion, plastics synthesis, polymer spectroscopy TRANSLATION: The authors studied the mechanism of formation of polymers based on 99.95% pure hydrolytic furfural and 99.98% pure hexamethylenetetramine at a mole ratio varying from 30:1 to 3:1. They found that the solid polymers FG-2, FG-1 and FG-10, obtained in > 80% yield at the boiling point of the reaction mixture and a furfural:hexamethylenetetramine ratio of 15:1, 6:1 and 3:1, re-Card 1/2

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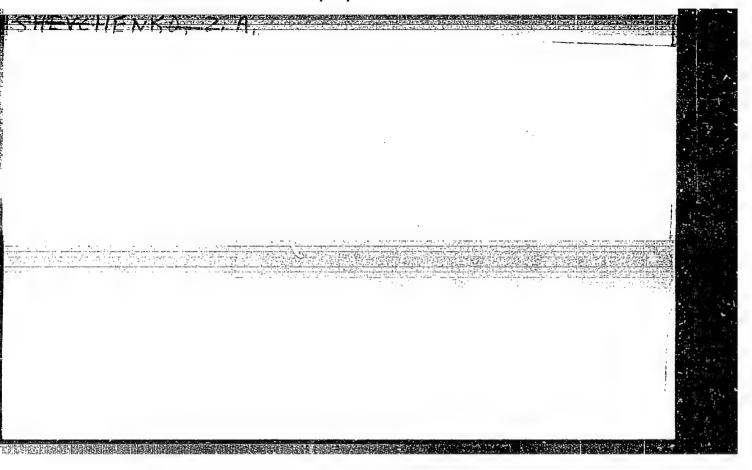
spectively, are of considerable interest for the manufacture of plastics. The polymers were purified and separated into fractions by the technique of fractional solution in petroleum ether, ethanol, acetone and dioxane followed by precipitation with water. The infrared and ultraviolet spectra indicate the presence of an unchanged furan ring, bound in the polymers in the 6-position, as well as keto groups in FG-2 and FG-1 and amido groups in FG-10 (see RZhKhim, 1964, SNS). L. Kotlyarevskaya.

SUB CODE:

GC, OC

ENCL: 00

Card 2/2 Bo



Synthesis and study of the transformations of glycols of the 6-series. Part 1: Transformations of 2,3,6-trimethyl-5-keto-3-hepten-2,6-diol. Zhur. ob. khim. 31 no.8:2526-2533 Ag '61. (NIRA 14:8)

1. Leningradskiy gosudarstvennyy universitet imeni A.A. Zhdanova. (Glycols)

FAVORSKAYA, T.A.; SHEVCHENKO, Z.A. Synthesis and conversions of glycols of the & -series. Part 2: Conversions of 3,4,7-trimethyl-6-keto-4-nonene-3,7-diol, Zhur. ob. khim. 32 no.1:46-50 Ja '62. (MIRA 15:2) 1. Leningradskiy gosudarstvennyy universitet. (Glycols)

FAVORSKAYA, T. A.; SHEVCHENKO, Z. A.

Synthesis and transformations of glycols of the V-series. Part 3: Condensation products of 1-acetylcyclohexan-1-ol. Zhur. ob. khim. 32 no.12:3918-3922 D 162. (MIRA 16:1)

1. Leningradskiy gosudarstvennyy universitet imeni A. A. Zhdanova.

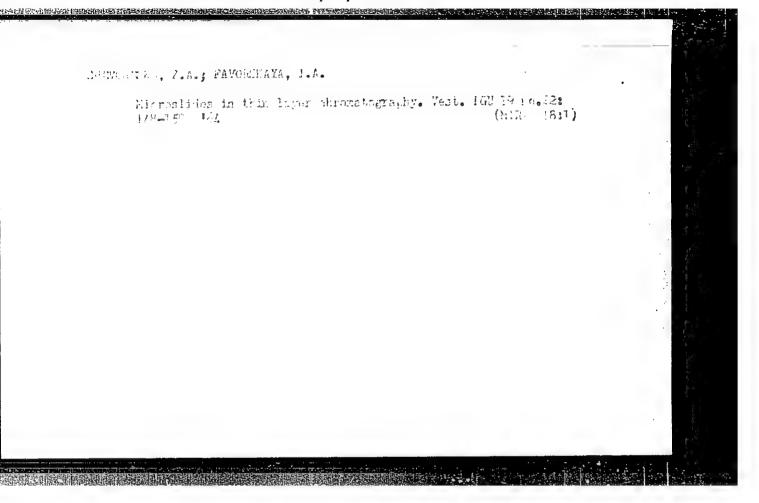
> (Cyclohexanol) (Condensation products)

CIA-RDP86-00513R001549210017-1" APPROVED FOR RELEASE: 08/23/2000

SHEVCHENKO, Z. A.; FAVORSKAYA, I. A.

Thin-layer chromatography of 2, A-dinitrophenylhydrazones of isomeric ketones. Vest. IGU 19 no.10:107-112 '64.

(MTRA 17:7)



SHEVCHERRO, Z.A.; FRANTSOV, V.P.; FOTAFOVA, V.F.; SPEKTOR, Ya.I.

Nature of large nonmetallic inclusions in ball bearing electric steel. Stal' 25 no.5:452-454 My '65.

1. Zavod "Dneprospetsstal'".

Forestive C. A. N.

Comparison A. R.: "Lethods of increasing double-petaledness in stock (Database R.Sr.)". Lenimgrad, 1955. Acad Sci USSR. Botany Instituted V. L. Momarov. (Dissertation for the Degree of Candidate of FICENICAL Eclences)

Solution Solution** No. 51, 10 December 1955

SHEVCHENKO, Z.D.

State of the assortment of flowering plants in the U.S.S.R. and outlook for establishing certified assortments. Trudy Bot.inst. Ser.6 no.7:436-437 '59. (MIRA 13:4)

Ukrainskaya opytnaya stantsiya tsvetochnykh i dekorativnykh rasteniy, Kiyev.

(Floriculture)

SHEVCHENKO, Z. G., TIMOFEYEV, M. A., STRAKHANOVA, E. V. and USHMAROVA, N. N.

"Ixodid Ticks are Carriers and Vectors of Tularemia in Krasnodar Kray."

Tenth Conference on Parasitological Problems and Diseases with Natural Reservoirs, 22-29 October 1959, Vol. II, Publishing House of Academy of Sciences, USSR, Moscow-Leningrad, 1959.

Krasnodar Kray Sanitation and Epidemiology Station and the Rostov-on-Don Antiplague Institute

SHEVCHENKO, Z. N.

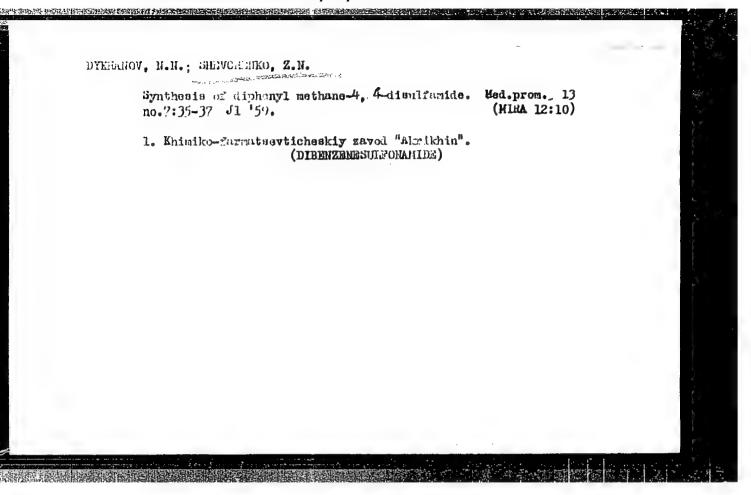
USSR/Chemistry - Chlorosulfonation Anilides Aug 49

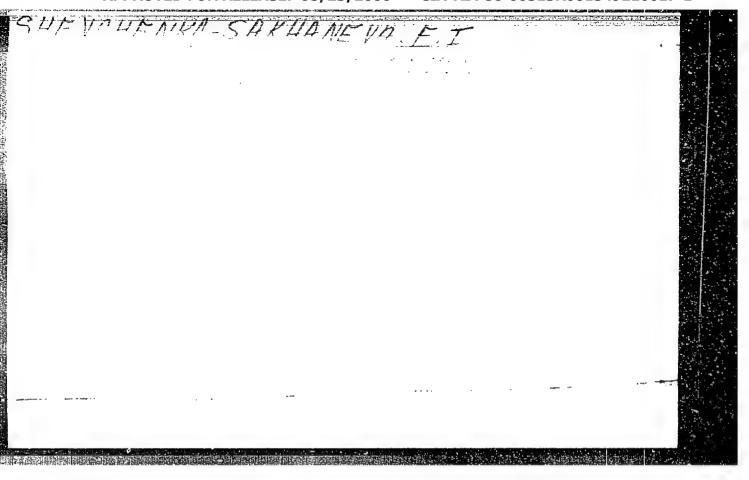
"The Mechanism of the Chlorosulfonating of Acylanilides," L. S. Solodar, Z. N. Shevchenko, Cen Lab, "Akrikhin" Plant, 8 pp

"Zhur Prik Khim" Vol XXII, No 8

Studied the three-stage dynamics of chlorosulfonating of acetanalide and phenylurethylan at 50, 60, 70, and 90°C: the formation of the acylanilide sulfo acid, its subsequent conversion into acylanilide sulfo chloride, and the acidolysis of the acylamino groups. Lowered temperatures decreased the acidolysis of the acylamino groups, resulting in greater yields of sulfo chloride. Submitted 15 Mar 49

PA 67/49T64





8(2)

Shevchenko-Vinogradov, V. P.

AUTHOR: The Geometrical Dimensions and the Dielectric Strength of the TITLE:

Insulation of Sector Conductors

Elektrichestvo, 1959, Nr 8, pp 69-72 (USSR) PERIODICAL:

It proves to be very difficult to calculate the exact geometrical dimensions of sector conductors, as the width b, the ABSTRACT:

height h, the radius R of the cable composed of single wires, the circumference L of the sector with the rounded-off edges (two with the radius r₁ and the central one with the radius r₂)

do not only depend upon these radii, but also upon phase insulation thickness and the coefficient of close packing. r and r2

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should not be below 0.5 mm, which is the only limitation imposed by GOST 6515-55. It is shown how these dimensions should be chosen if the thickness of the phase insulation and the rated voltage of the cable vary, and to what degree these variations have a retroactive effect upon the dimensions of the sector conductors. Formulas are derived by which the dimensions of the

sector conductor can be determined. This calculation is facil-

Card 1/3

The Geometrical Dimensions and the Dielectric Strength of the Insulation of Sector Conductors

itated by the nomograms presented. Summarizingly the following is stated: 1) The GOST specifications for triplex cables with a common insulation must give not only the lower limits of r_1 and r_2 , but also the coefficients of close packing. 2) If the dielectric strength of the insulation of the sector conductors is taken into account, the rounding-off radii cannot be assumed independently of one another. For triplex cables with a

common insulation $\frac{r_2}{r_1} = 1.65$ holds, for every cross section

and rated voltage of the cable and without impairing the dielectric strength of the conductor insulation. 3) Production materials may be saved not only by using drawn and closely packed conductors, but also by giving r₁ and r₂ optimum values.

This circumstance is not sufficiently realized in cable works.
4) This method allows to calculate with sufficient accuracy and simplicity sector conductors for all standard cross sections, taking into account the dielectric strength of their insulation

Card 2/3

SOV/105-59-8-16/28 The Geometrical Dimensions and the Dielectric Strength of the Insulation of Sector Conductors

> and the minimum requirements of material. There are 6 figures, 1 table, and 3 Soviet references.

ASSOCIATION: Moskovskiy energeticheskiy institut (Moscow Institute of Power

Engineering)

SUBMITTED: April 7, 1959

Card 3/3

GUBIN, Nikolay Mikhaylovich; SRAFIONOV, Onik Sergeyevich; SHEVCHENKOV, M.A., otv. red.; SIDOROVA, T.S., red.

[Economics, organization and planning in regional communication centers] Ekonomika, organizatsiia i planirc-vanie v raionnykh uzlakh sviazi. Moskva, Sviaz', 1964. 226 p. (MIRA 17:9)

8/250/62/006/007/002/002 1032/1242

AUTHORS:

Gordash, Yu. T., Shevchik, A.M., Laryutina, B.A.,

Pavlyuchenko, K.V.

TITLE:

The groups of sulfur-containing organic compounds in

the benzene-kerosene fractions of Mukhanov oil

PERIUDICAL:

Akademiya nauk BSSR. Doklady, v.6, no.7, 1962,

442-444

TEXT: Commercial petroleum from Mukhanov was fractionated into 12 fractions, the highest fraction boiling between 325° and 350°. The weight percentages of sulfur contained in mercaptanes (mercaptane sulfur), sulfides (sulfide sulfur), disulfides (disulfide sulfur) and other compounds (remainder sulfur) were determined for each fraction. Fractions boiling up to 100° contained mainly remainder sulfur, whereas fractions boiling between 100° and 225° contained mainly sulfide

Card 1/2

S/250/62/006/007/002/002 I032/I242

The groups of sulfur containing ...

sulfur. In no fraction did the mercaptane sulfur and disulfide sulfur account for more than 10% of the total sulfur. There is 1 figure and 2 tables.

ASSOCIATION: Institut fiziko-organicheskoy khimii AN BSSR

(Institute of Physical-Organic Chemistry, AS BSSR)

PRESENTED: by B.V. Yerofeyev, Academician A5 BSSR

SUBMITTED: December 12, 1961

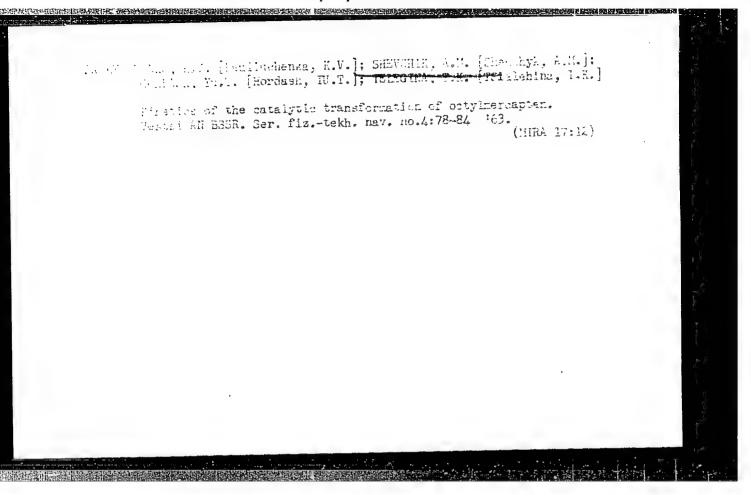
Card 2/2

SHEVCHIK. 4.M.; YEMEL YANOV. N.P.

Group composition of organosulfur compounds in gasoline-kerosine fractions of Yel'sk petroleum. Dokl. AN BSSR 9 no.8:523-525 Ag *65.

(MYRA 18:10)

l. Institut fiziko-organicheskoy khimii AN BSSR.



RM/WE L 13761-65 EWT(m)/EPF(c)/T Pr-L is 5/0250/64/008/008/0526/0529 ACCESSION NR: AP4045693

AUTHOR: Pavlyuchenko, K. V.; Shevchik, A. M.; Yemel'yanov, N. P.

TITLE: Adsorption of mercaptans and sulfur compounds from Mukhanovo crude oil on 5A and 13X zeolites

AN BSSR. Doklady*, v. 8, no. 8, 1964, 526-529 SOURCE :

TOPIC TAGS: desulfurization, adsorption, mercaptan, aulfide, suifide, Mukhanovo crude oil, 5A zeolite, 13X zeolite

ABSTRACT: A study has been made of the adsorption of individual normal primary mercaptans and other sulfur compounds from Mukhanovocrude on 5A and 13X zeolites. Adsorption of octyl- and nonyl-mercaptan, sulfides, and disulfides from the 240-360C cut of Mukhanovo crude was carried out on the 5A 202-175 and 5A 202-247 zeolites at 240-350C and on the 13X 202-208 zeolite at 222-261C, in a stream of nitrogen. The zeolites were regenerated at 375-380C in a stream

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ACCESSION NR: AP4045693

of hydrogen. It was found that the SA 202-175 and 13X zeolites adsorb mercaptans (90% on SA 202-175), sulfides, and disulfides, and control of the con

ARISTOV, Yuriy Kapitonovich; KRAKOVSKIY, I.I., redaktor; SHEVCHIK, D.B., retsenzent; KOZAKEVICH, V.I., retsenzent; SHLENNIKOVA, Z.V., redaktor; HEGICHEVA, M.N., tekhnichesliy redaktor.

[Repair of dredging apparatus and ways of impoving the wear-resistance of the parts] Remont dnoughbitel nykh snariadov i puti povyshenia. iznosostoikosti ikh detalei. Moskva, Izd-vo "Rechnoi transport," 1955. 283 p. (Dredging machinery) (MLRA 9:4)

SHEVCHIK, D., inzh.

New types of earth scows. Mor, flot 19 no. 6:15-16 Je '58, (MEA 11:7)

1. TSentral'noya proizvodstvenno-konstruktorskoya byuro-8. (Scows)

SHEVCHIK, D., inzh.

Auxiliary boats for the dredger fleet. Mor. flet 19 no.5:34-36
My '59.

(MIRA 12:7)

1. TSentral'noye proyektno-konstruktorskoye byuro No.8.

(Work boats) (Dredging)

SVITKO, A.L., inzh.; SHEVCHIK, D.B., inzh.

Assembly of equipment using a simplified assembly bridge crame. Mont. i spets. rab. v stroi. 24 no.10:19-20 '62. (MIRA 15:10)

1. Severo-Kavkazskiy otdel TSentral'nogo proyektno-konstruktorskogo otdeleniya Glavnogo upravleniya po montazhu tekhnologicheskogo oborudovaniya i proizvodstvu montazhnykh rabot Ministerstva stroitel'stva SSR.

(Cranes, derricks, etc.)

VOROB'YEV, V.D., inzh.; SHEVCHIK, D.P., inzh.

Crane or beam for moving along circular tracks. Mont. i spets. rab. v.stroi. 24 no.1:31-32 Ja '62. (MIRA 15:7)

1. TSentral nove proyektno-konstruktorskoye otdeleniye Vsesoyuznogo tresta po proyektirovaniyu, montazhu i proizvodstvu oborudovaniya vmutrizavodskogo transporta, kanatnykh podvsenykh dorog i kabelikranov. (Granes, derricks, etc.)

ATHOR: Shevchik, F.; Vetterl', V. The last dislocation permittivity of solutions in the centimeter wave band Mariex dislocation permittivity of solutions in the centimeter wave band Mariex dislocation permittivity, microwave dosimetry, glucose, water, gelatin, tissue hydration ARSTRACT: A method for measuring the dielectric permittivity of various solutions in the centimeter wave band is described. Diagrams of the principles and apparatus and are above in Figure 7 for the Enclosure. The equations derived from the solution of the principles and apparatus are above in Figure 7 for the Enclosure. The equations derived from the solution of the principles and apparatus are above in Figure 7 for the Following equations: $e = (\hat{\beta}_1^2 - \alpha_2^2) \beta_2^2;$ $e' = 2\alpha_2 \beta_2 \beta_2^2;$ $e' = 2\alpha_2 \beta_3 \beta_2^2;$ Card 1/#2	12 to the section of				
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L 58388-65 ACCESSION NR: AP5015651 Using the system elaborated in the figures, it was possible to achieve an evaluation accuracy greater than 0.5% with an accuracy of & measurement of ±3% and &" measwhich was a set when investigating distilled water irradiated with 3.2-cm waves at a in the measurement of various country that in reanily solutions as a function of their concentration. Some results the tests showed that the dielectric which care in an tell with determining the amount of free and bonded This contactless method of we there is a great advantages of rest, planing the solution to be measured in the - .. Could be experient because the source not come into contact with the wave-Fig. 1 , Toward 11 much easier to olean the waveguide and to maintain a constant solation temperature; second, the method is effective in measuring the dielectric permittivity of substances which expand in the solute as well as in measuring solid It Helestrics. However, the method is limited insofar as dielectrics with the larger are concerned. In biophysical investigations, this method can be overs the prelentation is the entropy fluids, call suspensions, and contrary margin of the method might lead to establishing a game of the Labely trasporty tration. Orig. art. has: A figures and is themsels. Card 2/7

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SHEVCHIK, V.

Perfect production base is a foundation for the development of road construction in the province. Avt.dor. 27 no.1:12 Ja '64. (MIRA 17:4)

1. Nachal'nik derozhnego upravleniya Vladimirskoy oblasti.